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### 1 Introduction to Large Objects

Random piece-wise access: LOBs support **random access** to data, ... **CLOB**. Character **Large Object**. Stores string data in the **database** character set format. ...

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### 8 I/O Configuration and Design

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When an SQL statement accesses a smart-large-object, the **database** server does not send the actual **BLOB** or **CLOB** data. Instead, it establishes a pointer to ...

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Simple **large objects** do not support **random access** to the data. When you transfer a simple large-object between a client application and the **database** server, ...

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### Using Large Objects

First, there is Red Hat Database's **Large Object (LOB)** extension. ... The **LOB** Extension API provided by PostgreSQL allows for **random access** within LOBs, ...

[www.redhat.com/docs/manuals/database/RHDB-2.1-Manual/prog/jdbc-lo.html](http://www.redhat.com/docs/manuals/database/RHDB-2.1-Manual/prog/jdbc-lo.html) - 19k -

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LOBs support **random access** to data, but LONG s support only sequential access. LOB datatypes (except NCLOB ) can be attributes of a user-defined **object type** ...

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### DBAzone.com: Using Multiple Block Sizes in Oracle9i

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**LOB** column tables - For those Oracle tables that contain raw, ...

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**object (BLOB)** in the underlying relational DBMS. ... research interests include **database** systems specialized for **large-scale** multidimensional-array data, ...

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### DBAsupport.com : Oracle 9i Central : Storing Word Documents in Oracle

Used to point at **large objects** that are external to the **database** and in operating system files. ... You can perform **random access** to the **LOB** data. ...

[www.dbasupport.com/oracle/ora9i/storing\\_word\\_docs.shtml](http://www.dbasupport.com/oracle/ora9i/storing_word_docs.shtml) - 55k - [Cached](#) - [Similar pages](#)

### 6. Advanced Features

If you have a production **database** using the 'lo' type/domain declared in a different ... The pgExpress Driver can read **Large Object (BLOB)** fields without ...

[www.vitavoom.com/Products/pgExpress\\_Driver/docs/advanced\\_features.html](http://www.vitavoom.com/Products/pgExpress_Driver/docs/advanced_features.html) - 43k -

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### Computer program product and apparatus for retrieval of OLE ...

(d) retrieving an OLE-enabled Binary **Large Object (BLOB)** from the RDBMS server ...

**random access** memory (RAM), fixed and/or removable data storage devices, ...

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### Approach for managing access to large objects in database systems ...

A method and system for accessing a **large object (LOB)** that belongs to a cell in a ...

Computer system 100 further comprises a **random access** memory (RAM) or ...

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### Content Log: Content Storage in Alfresco

Trying to support this protocol on top of a **database BLOB** would require constant ... or

CLOBs (Character **Large Object**), even if they support these **objects**. ...

[newton.typepad.com/content/2006/09/content\\_storage.html](http://newton.typepad.com/content/2006/09/content_storage.html) - 26k - [Cached](#) - [Similar pages](#)

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**BLOB** (Binary Large Data)–A large amount of binary data stored within an Oracle database. **BLOB** data can consist of audio, video, images, documents, ...

[www4.dogus.edu.tr/bim/bil\\_kay/dbase/oracle8/apd.htm](http://www4.dogus.edu.tr/bim/bil_kay/dbase/oracle8/apd.htm) - 32k - [Cached](#) - [Similar pages](#)

### Abbreviations and Acronyms

**CLOB**. character large object. **COM**. common object model [Microsoft]. **CORBA**. common object request broker architecture [OMG]. **DB**. database ...

[www.camden.rutgers.edu/HELP/Documentation/Oracle/java.815/a64683/acronyms.htm](http://www.camden.rutgers.edu/HELP/Documentation/Oracle/java.815/a64683/acronyms.htm) - 43k - [Cached](#) - [Similar pages](#)

### JORA: Java Object Relational Adapter

If you have large number of tightly linked objects, it is often very inconvenient ... will be packed and placed in database **BLOB** field using standard Java ...

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possible to perform random access to selected objects. It is possible to limit size ... will be packed and placed in database **BLOB** field using standard Java ...

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### PostgreSQL: Documentation: Manuals: PostgreSQL 7.4: JDBC API

This will return an instance associated with the database connection that you ... Normally, client code would use the **BLOB** methods to access large objects. ...

[www.postgresql.org/docs/7.4/interactive/jdbc-ext.html](http://www.postgresql.org/docs/7.4/interactive/jdbc-ext.html) - 47k - [Cached](#) - [Similar pages](#)

### Chapter 3: Handling Smart Large Objects

To access an existing smart large object in the database, ... can select an LO handle of a smart large object from a **CLOB**, **BLOB**, or opaque-type column. ...

[www-306.ibm.com/software/data/informix/pubs/library/datablade/dbdk/dapi/03.fm5.html](http://www-306.ibm.com/software/data/informix/pubs/library/datablade/dbdk/dapi/03.fm5.html) - 32k - [Cached](#) - [Similar pages](#)

### Chapter 2: Data Types

When you access a smart-large-object column with an SQL statement, the database server does not send the actual **BLOB** or **CLOB** data. Instead, it establishes a ...

[www-306.ibm.com/software/data/informix/pubs/library/datablade/dbdk/sqlr/02.fm5.html](http://www-306.ibm.com/software/data/informix/pubs/library/datablade/dbdk/sqlr/02.fm5.html) - 12k - [Cached](#) - [Similar pages](#)

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In large-object. (LOB) database systems, SRB supports file-type access to ... Legion BasicFilesObjects are represented as a random-access linear array of ...

[www.ggf1.nl/abstracts/DATA/data-GGF1RemoteDataAccess.PDF](http://www.ggf1.nl/abstracts/DATA/data-GGF1RemoteDataAccess.PDF) - [Similar pages](#)

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**LOB** Types. A **LOB** is a Large Object type that allows for. efficient storage and manipulation of large, ... tends to be large and requires random access to ...

[doi.ieeecomputersociety.org/10.1109/CMPCON.1997.584686](http://doi.ieeecomputersociety.org/10.1109/CMPCON.1997.584686) - [Similar pages](#)

### Märtens, Holger; Rahm, Erhard: On Parallel Join Processing in ...

Our performance study is based on simulation and uses database characteristics from the BUCKY benchmark featuring large sets of objects in comparatively ...

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[www.rampant-books.com/t\\_rssd\\_2\\_seggregate\\_allocating\\_objects.htm](http://www.rampant-books.com/t_rssd_2_seggregate_allocating_objects.htm) - 26k -

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**Random Access** Memory. RDBMS. Relational **Database** Management System. RIS.

Remote Installation Services ... **Very Large Database**. VPN. Virtual Private Network ...

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[www.informatik.fernuni-hagen.de/import/pi4/papers/FLOBs-Report.ps.gz](http://www.informatik.fernuni-hagen.de/import/pi4/papers/FLOBs-Report.ps.gz) - [Similar pages](#)

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ref **LOB**. Signature 1: **Large Object**. Signature 1 depicts the operations that we assume to

be ... Proceedings of the 15th Conference on **Very Large Databases** ...

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Binary **Large Object (BLOB)** called a Netlob (NetCDF. **Large Object**):. Provides NetCDF

file capability to a **database**. Encapsulates data and metadata in single ...

[www.mad.zmaw.de/fileadmin/extern/workshops/data\\_workshop\\_2006/HMD\\_netlobs\\_Ag.pdf](http://www.mad.zmaw.de/fileadmin/extern/workshops/data_workshop_2006/HMD_netlobs_Ag.pdf) -

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The Sybase Driver

To connect to a Sybase **database**, use the following URL format: ... **Large Object (LOB)**

Support. Although Sybase does not define a **Blob** or **Clob** data type, ...

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The MS SQL Server Driver

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Dropping, or deleting, **database objects** by accident is a mistake people have, ... Backing up a **large database** system is no simple task. A **large database** can ...  
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Significant changes, although, where made in Oracle8 with the introduction of the **Large Object (LOB)** datatypes. Oracle introduced LOBs to support the ...  
[www.idevelopment.info/data/Oracle/DBA\\_tips/LOBs/LOBS\\_1.shtml](#) - 19k - [Cached](#) - [Similar pages](#)

### Program with Informix .NET extensions

The **BLOB** and **CLOB** Informix data types support **random access** to the data. ... If you have the smart **large object** locator of a **BLOB** or **CLOB** you can access the ...  
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... efficient Derby implementation of the getBytes **LOB** methods that provide "**random-access**" to the binary // character content of **database large objects**. ...  
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### Managing Blobs Using The ATL OLE DB Consumer Templates on the ...

Managing **large** data types on SQL CE **databases** and the ATL OLE DB Consumer ... **object** allows you to do the same thing but uses a **random access** approach. ...  
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### A POWERFUL ISAM FILE MANAGER

Since a sequential search is time consuming, a **random access** is the ... The term **BLOB**, Binary **Large Object**, is commonly used to refer to very **large** text or ...  
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### Basic DB2 UDB Performance Tuning, Part 3

For best performance, make **database objects** the target of your attention. ... that performs many **random access** operations against a very **large** table, ...

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### Native OLE DB Provider for InterBase and Firebird SQL Servers ...

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**Blob. Blob. DataBase Objects. Blob:** a sequence of bytes. ... Fully transparent I/O with performances essentially limited by the disk speed (**random access**). ...

[www.asd.web.cern.ch/wwwasd/cernlib/rd45/chep98/vindbpanel.ppt](http://www.asd.web.cern.ch/wwwasd/cernlib/rd45/chep98/vindbpanel.ppt) - [Similar pages](#)

### oreilly.com -- Online Catalog: Python Cookbook, Second Edition

7.6 Pickling Code **Objects** 7.7 Mutating **Objects** with shelve 7.8 Using the Berkeley DB **Database** 7.9 Accesssing a MySQL **Database** 7.10 Storing a **BLOB** in a MySQL ...

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### I/O Configuration and Design

Oracle9i **Database** Performance Tuning Guide and Reference ... If the rows are **large**—for example, if they contain **large object (LOB)** data—then choose a ...

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### 9 Maintenance and Tuning

All documents are stored as Binary **Large Objects (BLOBs)**, which is one type of **LOB** provided by the **database**. See "Provide Adequate Storage to Improve ...

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Since linear storage of those MDDs as binary **large objects** ... because every tile is stored as one single **BLOB** in the relational **database** system. This ...

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Try to minimize # of **objects** in **database**. Use 32K pieces for **large databases** ... **Large** tablespaces w/**random access**. Small frequently updated tables and IX's ...

[www.quest.com/quest\\_central\\_for\\_db2/pdfs/Managing\\_DB2\\_Performance.pdf](http://www.quest.com/quest_central_for_db2/pdfs/Managing_DB2_Performance.pdf) -

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### Dr. Dobb's | Embedded Databases | November 6, 2002

In this example, given an Owner **object**, the **database** layer could determine a set of ...

However, with a purely **random access** pattern and a **large database**, ...

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In Figure 2, an example of how a graph of three related **objects** gets persisted in ...

However, with a purely **random access** pattern and a **large database**, ...

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### A Close Look at the Compact XML Schema-Aware XML Processing Framework

The existing Oracle XML DB storage is either on LOBs or **object**-relational tables. **LOB** storage is slow to process because it requires XML parsing before any ...

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## Abbreviations and Acronyms

**BLOB**, binary large object. BOA, basic object adapter [CORBA] ... **Object Database Management Group**. OEM, original equipment manufacturer ...  
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## [PPT] Introduction to IBM DB2 UDB

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 Server installation: the amount of **random-access** memory (RAM) that required ... DB2 UDB Enterprise Edition is designed for **large databases** with many users. ...  
[giscenter.isu.edu/training/ppt/it4gis/week11-Introduction%20to%20IBM%20DB2%20UDB.ppt](http://giscenter.isu.edu/training/ppt/it4gis/week11-Introduction%20to%20IBM%20DB2%20UDB.ppt) - [Similar pages](#)

## ORACLE-BASE - Articles on Oracle 9i new features

Metadata API - Extract DDL or XML definitions of all **database objects** using ... Export **BLOB** Contents Using UTL\_FILE - Use the new UTL\_FILE functionality to ...  
[www.oracle-base.com/articles/9i/Articles9i.php](http://www.oracle-base.com/articles/9i/Articles9i.php) - 39k - [Cached](#) - [Similar pages](#)

## Glossary

**BLOB**, Binary large object. **Large objects** are stored in the **database** ... This is based on a **random access** requirement that an I-frame (starting point) is ...  
[download-east.oracle.com/otn\\_hosted\\_doc/intermedia/inter.816/a67296/im\\_glos.htm](http://download-east.oracle.com/otn_hosted_doc/intermedia/inter.816/a67296/im_glos.htm) - 32k -  
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 long data (long varying-length character data or **large object [LOB]** data) are referred to as ... If you have an application that performs many **random access** ...  
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## ItemSpace Data Structures for the Infinity Database Engine B-Tree

In principle, there can be **random access** over a **CLOB** or **BLOB** but this has ... used by an **Object-Oriented Database** may bring **large** or unpredictable amounts ...  
[boilerbay.com/infinitydb/ItemSpaceDataStructures.htm](http://boilerbay.com/infinitydb/ItemSpaceDataStructures.htm) - 191k - [Cached](#) - [Similar pages](#)

## Release 8.0 New Features and Options

Very **large databases** present significant challenges for administrators and ... be an attribute of an **object**. You can also have more than one **LOB** per table. ...  
[www.csee.umbc.edu/help/oracle8/server.815/a68020/ch3.htm](http://www.csee.umbc.edu/help/oracle8/server.815/a68020/ch3.htm) - 48k -  
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### Built-In Datatypes

LOBs support **random access** to data, but LONGs support only sequential access. **LOB** datatypes (except NCLOB) can be attributes of a user-defined **object** type ...  
[www.csee.umbc.edu/help/oracle8/server.815/a67781/c10datyp.htm](http://www.csee.umbc.edu/help/oracle8/server.815/a67781/c10datyp.htm) - 86k -  
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## [Chapter 4] 4.2 Scalar Datatypes

Use the **BLOB** datatype to store **large binary objects** "out of line" inside the **database**. This means that when a table has a **BLOB** column, a row of data for ...  
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## Oracle multiple blocksizes benefits

For example, Oracle indexes and Oracle **large object** data types (**BLOB**, **CLOB**) perform best with **large block sizes**; **random access** of small data rows do best ...  
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Character **Large Binary Object (CLOB)**. DB2 database, 442–444. overview, 261 ... RAM (Random Access Memory), 143. RAW mode, FOR XML clause, 169–173 ...  
[media.wiley.com/product\\_data/excerpt/02/04717912/0471791202-1.pdf](http://media.wiley.com/product_data/excerpt/02/04717912/0471791202-1.pdf) - [Similar pages](#)

**Oracle9iFeatures | Info | LTS**

**LOB Data Types.** Until Oracle8 **Large Objects** (unstructured data) could be stored in the database by using the LONG and LONG RAW datatypes. ...  
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**share\*it! - A service of Digital River - IBProvider (Corporate ...**

Support of reading & writing **BLOB**-fields through the streams. ... As all the resources for work with the **database** are presented as COM-objects, ...  
[www.shareit.com/product.html?productid=173591&languageid=1&stylefrom=173566&currencies=EUR](http://www.shareit.com/product.html?productid=173591&languageid=1&stylefrom=173566&currencies=EUR) - 29k - [Cached](#) - [Similar pages](#)

**Managing Oracle Databases on the Web**

Character **Large Object (CLOB)**, Refers to the **LOB** data type whose value is composed of character data corresponding to the **database** character set. ...  
[www.watchit.com/PGDSCR.cfm?c\\_acronym=MOWE&programPageDisplay=Glossary](http://www.watchit.com/PGDSCR.cfm?c_acronym=MOWE&programPageDisplay=Glossary) - 334k - [Cached](#) - [Similar pages](#)

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every tile is stored as one single **Binary Large Object (BLOB)** in the underlying ... Hard disks have fast **random access**, whereas tape systems have sequential ...  
[www.wibas.forwiss.tu-muenchen.de/wibas/db/webcon/wibasdb/download/52/application/pdf.pdf](http://www.wibas.forwiss.tu-muenchen.de/wibas/db/webcon/wibasdb/download/52/application/pdf.pdf) - [Similar pages](#)

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arrays, structures and arrays within structures). Support for **large object** data (**BLOB** fields). SQL-Defined and/or non-SQL **databases** ...  
[ipzone.net/database/collaterals/Database%20Family%20-%20DataSheet%20\(2006-10-13\).pdf](http://ipzone.net/database/collaterals/Database%20Family%20-%20DataSheet%20(2006-10-13).pdf) - [Similar pages](#)

**RE: jdbc large object support ??**

Stream support is simply passing an InputStream (say from a file) directly > to a **large object** in the **database**. The ImageViewer example shows the other ...  
[archives.postgresql.org/pgsql-interfaces/2000-07/msg00170.php](http://archives.postgresql.org/pgsql-interfaces/2000-07/msg00170.php) - 14k - [Cached](#) - [Similar pages](#)

**Re: BLOB Feature Limits**

I would presume this to meant that a **large object** has no finite size limitation apart from the **database** itself exceeding disk space limits. ...  
[archives.postgresql.org/pgsql-sql/2002-04/msg00287.php](http://archives.postgresql.org/pgsql-sql/2002-04/msg00287.php) - 14k - [Cached](#) - [Similar pages](#)

**The MS SQL Server Driver**

Note: If you are installing stored procedures on a **database** server with ... **Large Object (LOB)** Support. Although Microsoft SQL Server does not define a **Blob** ...  
[edocs.bea.com/wls/docs81/jdbc\\_drivers/mssqlserver.html](http://edocs.bea.com/wls/docs81/jdbc_drivers/mssqlserver.html) - 74k - [Cached](#) - [Similar pages](#)

**The National Archives | NDAD | Glossary|**

**Binary Large Object (BLOB)**. **Binary large object**. A term used in more modern **databases** which are able to store information such as images, sound or video as ...  
[www.ndad.nationalarchives.gov.uk/help/glossary.html](http://www.ndad.nationalarchives.gov.uk/help/glossary.html) - 52k - [Cached](#) - [Similar pages](#)

### IngentaConnect Gaitbase - an integrated relation...nagement of ...

Gaitbase - an integrated relational **database** for the management of gait laboratory ... distribution data are stored in binary-**large-object (BLOB)** fields. ...  
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### Python Cookbook, 2nd Edition - O'Reilly Labs

Pickling Code **Objects**. Mutating **Objects** with shelve. Using the Berkeley DB **Database**.  
Accessing a MySQL **Database**. Storing a **BLOB** in a MySQL **Database** ...  
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### Glossary

The two control blocks Adabas assigns to each **database**. ... Adabas stores **large object** field values in a separate file, called a **LOB** file, that is tightly ...  
[documentation.softwareag.com/adabas/ada812mfr/adamf/general/glossary.htm](http://documentation.softwareag.com/adabas/ada812mfr/adamf/general/glossary.htm) - 95k - [Cached](#) - [Similar pages](#)

### Best Practices for Using ADO.NET

This allows for **random access** of columns within the current row. ... When using the DataReader to retrieve a Binary **Large Object (BLOB)**, you should pass ...  
[msdn2.microsoft.com/en-us/library/ms971481.aspx](http://msdn2.microsoft.com/en-us/library/ms971481.aspx) - 62k - [Cached](#) - [Similar pages](#)

### LOB locators in CLI applications

A **LOB** locator is a token value, defined as type SQLINTEGER, that allows for efficient **random access** of a **large object**. When a **LOB** locator is used, ...  
[db2.mi.hdm-stuttgart.de/db2help/help/topic/com.ibm.db2.udb.apdv.cli.doc/doc/c0007842.htm](http://db2.mi.hdm-stuttgart.de/db2help/help/topic/com.ibm.db2.udb.apdv.cli.doc/doc/c0007842.htm) - 9k - [Cached](#) - [Similar pages](#)

### Orri Erling's Weblog

This is also the index with the more **random access**, so the benefit is compounded in ...  
This was different from just storing **object** serializations into **LOB** ...  
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### Random Access Files in databases

1) Can I make **random access** to the data in a **database** file the same ... is text and you store it in a **CLOB (Character Large Object)** datatype, you ...  
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### PHPBuilder.com, the best resource for PHP tutorials, templates ...

Postgres has a '**Large Object**' type, and has had it since 4.x. ... but an the **object** is indexed so **random access** can be performed sub-sections of the **object**. ...  
[www.phpbuilder.com/annotate/message.php3?id=1000103](http://www.phpbuilder.com/annotate/message.php3?id=1000103) - 82k - [Cached](#) - [Similar pages](#)

### Webcentre Ltd FAQ

Put the TCompress **object** on your Data Module with your tables. ... If you are not using the **database blob** compression components (CDBMemo etc), ...  
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### New Features and Options

The **Object Database Designer** offers **object** support in a design tool. ... **LOB** functionality is available with both Oracle8 and the Oracle8 Enterprise Edition ...  
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### 26 Native Datatypes

Oracle **Database Application Developer's Guide - Large Objects** for more ... Oracle to

provide efficient character-based **random access** on CLOBs and NCLOBs. ...  
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### **DBPD: Multimedia Databases Through the Looking Glass**

Many SQL **database** systems support the storage of ADTs in binary **large objects**, or  
BLOBs; the works-in-progress ANSI SQL3 standard supports ADTs stored as ...  
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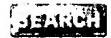
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Bill Rosenblatt

 December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4

**Publisher:** ACM Press

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**2 [A publish/subscribe CORBA persistent state service prototype](#)**


C. Liebig, M. Cilia, M. Betz, A. Buchmann

 April 2000 **IFIP/ACM International Conference on Distributed systems platforms**
**Publisher:** Springer-Verlag New York, Inc.

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An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

**3 [Web3D in ocean science learning environments: virtual big beef creek](#)**


Bruce Campbell, Paul Collins, Hunter Hadaway, Nick Hedley, Mark Stoermer

 February 2002 **Proceeding of the seventh international conference on 3D Web technology**
**Publisher:** ACM Press

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The Virtual Reality Modeling Language (VRML), Java 3D software development packages, and World Wide Web (the Web) offer great potential for delivering three-dimensional, collaborative virtual environments to broad, on-line audiences. These capabilities have significant potential in ocean sciences, so a visualization environment was developed to explore these possibilities. The University of Washington's Virtual Big Beef Creek (VBBC) project has been continuously refined since its initial impleme ...

**Keywords:** VRML, interface paradigms, virtual environments, virtual geography, virtual


worlds

4 Beagle SQL, A Client/Server Database for Linux

Rob Klein

February 1998 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

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Mr. Klein introduces us to a database called Beagle SQL that he developed as a learning experience

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